

## CLAIMS

What is claimed is:

- 1     1.     A menu-driven electronic device comprising:
  - 2           a.     a display configured to selectively display one of a plurality of menus, including a
  - 3                 main menu and a sub-menu, and
  - 4           b.     a two-dimensional navigation key configured to select one of a plurality of main
  - 5                 menu items of the main menu and to select a sub-menu item of the sub-menu
  - 6                 associated with a selected main menu item.
  
- 1     2.     The device according to claim 1, wherein at least a portion of the plurality of main menu
- 2           items is displayed, and further wherein both the main menu and the sub-menu can be
- 3           accessed by maintaining contact with the two-dimensional key.
  
- 1     3.     The device according to claim 1, wherein the device is configured to allow navigation
- 2           through the plurality of menus by using the two-dimensional navigation key.
  
- 1     4.     The device according to claim 1, wherein the device is configured to allow navigation
- 2           through the plurality of menus while maintaining tactile contact with the two-dimensional
- 3           navigation key.
  
- 1     5.     The device according to claim 1, wherein the device is configured to allow toggling
- 2           among at least two control levels by a single access of the two-dimensional navigation
- 3           key.
  
- 1     6.     The device according to claim 1, wherein the device is configured to allow toggling

2 between the main menu and one of the plurality of main menu items by using a first  
3 direction of the two-dimensional navigation key and to allow toggling between the  
4 selected main menu item and the sub-menu associated with the selected main menu item  
5 by using a second direction of the two-dimensional navigation key.

1 7. The device according to claim 1, wherein the device is configured to allow scrolling  
2 among at least two control levels by a single access of the two-dimensional navigation  
3 key.

1 8. The device according to claim 1, wherein the device is configured to display the selected  
2 main menu item simultaneously with the sub-menu associated with the selected main  
3 menu item.

1 9. The device according to claim 1, wherein the device is configured to display the selected  
2 main menu item simultaneously with a plurality of sub-menu items associated with the  
3 selected main menu item.

1 10. The device according to claim 1, wherein the plurality of menus are organized in a menu  
2 tree.

1 11. The device according to claim 1, wherein the main menu further comprises a main menu  
2 item icon representing a main menu item.

1 12. The device according to claim 11, wherein the device is configured to display the main  
2 menu item icon to provide a visual reference to an item in the menu tree of the menu  
3 being displayed.

1 13. The device according to claim 12, wherein when the device displays at least a portion of  
2 the main menu, the main menu item icon is displayed in a first appearance, and when the  
3 device displays the sub-menu, the main menu item icon is displayed in a second  
4 appearance different from the first appearance.

1 14. The device according to claim 13, wherein the first appearance differs from the second  
1 appearance by at least one of size, shape, color, highlighting, and pattern.

1 15. The device according to claim 14, wherein when the device displays the sub-menu, the  
2 main menu item icon is displayed in a third size different from the first size and the  
3 second size.

1 16. The device according to claim 9, wherein the main menu further comprises a non-  
2 graphical listing of the plurality of sub-menu items of the sub-menu associated with the  
3 selected main menu item.

1 17. The device according to claim 1, wherein the device is a phone.

1 18. A menu-driven wireless telecommunications device comprising:

2 a. a display configured to selectively display one of a plurality of menus, including a  
3 main menu and a sub-menu,

4 b. a two-dimensional navigation key configured to select one of a plurality of main  
5 menu items of the main menu and to select a sub-menu item item of the sub-menu  
6 associated with a selected main menu item,

7 wherein the device displays a plurality of sub-menu items.

1 19. The device according to claim 18, wherein when the device displays on the display the

2 sub-menu associated to the selected main menu item, a main menu icon is displayed in  
3 the sub-menu to provide a visual reference to the selected main menu item in the menu  
4 tree of the menu being displayed.

1 20. The device according to claim 18, wherein the plurality of menus includes a first sub-  
2 menu and a second sub-menu, wherein the first sub-menu further comprises a plurality of  
3 first sub-menu items and further wherein one of the plurality of first sub-menu items is  
4 associated to a second sub-menu.

1 21. The device according to claim 20, wherein the second sub-menu further comprises a  
2 plurality of second sub-menu items.

1 22. The device according to claim 21, wherein a third orientation of the two-dimensional  
2 navigation key is configured to select one of the plurality of second sub-menu items.

1 23. A menu-driven wireless telecommunications device comprising:  
2 a. a display configured to selectively display one of a plurality of menus, including a  
3 main menu, a first sub-menu, and a second sub-menu, and  
4 b. a two-dimensional navigation key configured to select one of a plurality of main  
5 menu items of the main menu, to select a first sub-menu item of the first sub-  
6 menu associated with a selected main menu item, and further to select a second  
7 sub-menu item of the second sub-menu associated with the selected main menu  
8 item.

1 24. The device according to claim 23, wherein the device is configured to allow scrolling  
2 between the main menu and one of the plurality of main menu items by using a first  
3 direction of the two-dimensional navigation key, to allow scrolling between the selected

4 main menu item and the first sub-menu associated with the selected main menu item by  
5 using a second direction of the two-dimensional navigation key, and further to allow  
6 scrolling between the second sub-menu associated with the selected main menu item and  
7 a second sub-menu item by using a third direction of the two-dimensional navigation key.

1 25. The device according to claim 24, wherein the third direction corresponds with the first  
2 direction of the two-dimensional navigation key.

1 26. The device according to claim 23, wherein the device is configured to display a main  
2 menu item icon to provide a visual reference to an item in a menu tree of the menu being  
3 displayed.